



(43) International Publication Date
21 July 2005 (21.07.2005)

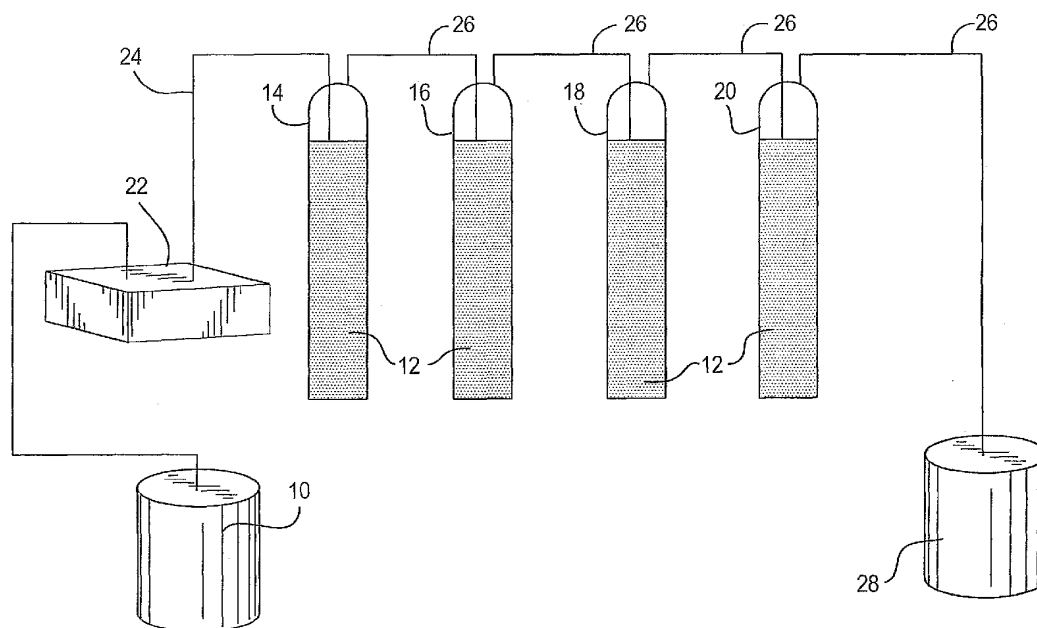
PCT

(10) International Publication Number
WO 2005/066313 A2

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| <p>(51) International Patent Classification⁷:
21/18, 5/04</p> <p>(21) International Application Number:
PCT/US2004/043718</p> <p>(22) International Filing Date:
22 December 2004 (22.12.2004)</p> <p>(25) Filing Language: English</p> <p>(26) Publication Language: English</p> <p>(30) Priority Data:
60/532,742 24 December 2003 (24.12.2003) US</p> <p>(71) Applicant (for all designated States except US): SAUDI ARABIAN OIL COMPANY [SA/SA]; R-3296, Administration Building, Dhahran 31311 (SA).</p> <p>(72) Inventors; and</p> <p>(75) Inventors/Applicants (for US only): MARTINIE, Gary, Dean [US/SA]; 5616 Holly Street, P.O. Box 11936, Dhahran 31311 (SA). AL-SHAHRANI, Farhan, M.</p> | <p>[SA/SA]; Commercial Street, Al-Rabwah, P.O. Box 9308, Dhahran 31311 (SA).</p> <p>(74) Agent: CINAMON, Jay, S.; Abelman, Frayne & Schwab, 150 E. 42nd Street, New York, NY 10017-5612 (US).</p> <p>(81) Designated States (<i>unless otherwise indicated, for every kind of national protection available</i>): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.</p> <p>(84) Designated States (<i>unless otherwise indicated, for every kind of regional protection available</i>): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).</p> |
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(54) Title: REACTIVE EXTRACTION OF SULFUR COMPOUNDS FROM HYDROCARBON STREAMS



(57) Abstract: A process to substantially reduce the sulfur content of a liquid hydrocarbon stream by contacting the hydrocarbon stream with an aqueous stream containing a mixture of one or more extraction agents selected from hypochlorites, cyanurates and alkali metal and alkaline earth metal hydroxides, optionally in the presence of a catalyst, to remove sulfur compounds.



Published:

— without international search report and to be republished
upon receipt of that report

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